

AMENDMENT

In the Claims:

Please amend the claims as follows:

1. (Currently amended) A power distribution system comprising:

a bank of loads;

a bank of sources including a first group of sources and a second group of sources; and

~~a bank of loads; and~~

~~an interconnect arrangement including a plurality of interconnects, the interconnects that, in a first operating mode, are operable to connecting each source of the first and second groups to at least one of the loads such that each of the sources in the first and second groups provides power to at least one of the loads, and that, in a second operating mode during which one or more of the sources is inoperable to provide power, are operable to cause one or more sources of both the first and second groups of sources so as to be fully powered by sources of both the first and second groups of sources and such that if any one source or all or more sources of one of the groups of sources fails, each all of the loads to remain fully powered by at least one sourcesources in one of the first and second groupset one or both of the first and second groups of sources; and~~

wherein in normal operation, all sources provide power to one or more loads.

2. (Original) The system of claim 1 wherein the sources, interconnects, and loads are dividable into subsystems, wherein each subsystem includes four X watt loads, two 2X watt first group sources and one 4X watt second group source, and wherein two of the X watt loads are connected to a common one of the 2X watt first group sources, another two of the loads are connected to another one of the 2X watt first group sources, and wherein all of the X watt loads are connected to the 4X watt second group source.

3. (Original) The system of claim 1 wherein the sources, interconnects, and loads are dividable into subsystems, wherein each subsystem includes two 2X

watt loads, two 2X watt first group sources and one 4X watt second group source, and wherein each of the 2X watt loads are connected to a different one of the 2X watt first group sources and to the 4X watt second group source.

4. (Original) The system of claim 1 wherein the sources, interconnects, and loads are dividable into subsystems, wherein each subsystem includes one 4X watt loads, two 2X watt first group sources and one 4X watt second group source, and wherein the 4X watt load is connected to the 2X watt first group sources and to the 4X watt second group source.

5. (Original) The system of claim 1 wherein the sources, interconnects, and loads include two 6X watt loads, six 2X watt first group sources and three 4X watt second group sources, and wherein each of the 6X watt loads is connected to a common one and a unique one of the 4X watt second group sources, and to a unique three source subgroup of the 2X watt first group sources.

6. (Original) The system of claim 1 wherein the sources, interconnects, and loads include one 12X watt load, six 2X watt first group sources and three 4X watt second group source, and wherein the 12X watt load is connected to all of the 2X watt first group sources and all of the 4X watt second group sources.

7. (Original) The system of claim 1 wherein the first group of sources are AC sources.

8. (Currently amended) The system of claim 1 wherein the first group of sources are AC sources and the AC sources each provide a DC voltage with a one thousand watt capacity.

9. (Original) The system of claim 1 wherein the second group of sources are DC sources.

10. (Currently amended) The system of ~~claim 9-claim 1~~ wherein the second group of sources are DC sources and the DC sources each provide battery voltage with a two thousand watt capacity.

11. (Currently amended) A power distribution system comprising:
a bank of loads;

a bank of sources including a group of AC sources and a group of DC sources; and

an interconnect arrangement including a bank of loads; and a plurality of interconnects that, in a first operating mode, are operable to connect each source in the group of AC sources and each source in the group of DC sources to at least one of the loads such that each source in both the group of AC sources and the group of DC sources provides power to at least one load, and that, in a second operating mode during which one or more of the sources is inoperable to provide power, are operable to cause each of the loads to remain fully powered by at least one source in the group of AC sources or the group of DC sources. ~~a plurality of interconnects that connect each load to one or more sources of both the group of AC sources and the group of DC sources so as to be fully powered by sources of both the group of AC sources and the group of DC sources and such that if any one or more sources of either the group of AC sources or the group of DC sources fails, all of the loads each load will remain fully powered; and~~

wherein in normal operation, all sources provide power to one or more loads.

12. (Original) The system of claim 11 wherein the sources, interconnects, and loads are dividable into subsystems, wherein each subsystem includes four X watt loads, two 2X watt AC sources and one 4X watt DC source, and wherein two of the X watt loads are connected to a common one of the 2X watt AC sources, another two of the loads are connected to another one of the 2X watt AC sources, and wherein all of the X watt loads are connected to the 4X watt DC source.

13. (Original) The system of claim 12 wherein the system consists of three of the subsystems.

14. (Original) The system of claim 11 wherein the sources, interconnects, and loads are dividable into subsystems, wherein each subsystem includes two 2X watt loads, two 2X watt AC sources and one 4X watt DC source, and wherein each of the 2X watt loads is connected to a different one of the 2X watt AC sources and to the 4X watt DC source.

15. (Original) The system of claim 14 wherein the system consists of three subsystems.

16. (Original) The system of claim 11 wherein the sources, interconnects, and loads are dividable into subsystems, wherein each subsystem includes one 4X watt load, two 2X watt AC sources and one 4X watt DC source, and wherein the 4X watt load is connected to the 2X watt AC sources and to the 4X watt DC source.

17. (Original) The system of claim 16 wherein the system consists of three of the subsystems.

18. (Original) The system of claim 11 wherein the sources, interconnects, and loads include two 6X watt loads, six 2X watt AC sources and three 4X watt DC sources, and wherein each of the 6X watt loads is connected to a common one and a unique one of the 4X watt DC sources, and to a unique three source subgroup of the 2X watt AC sources.

19. (Original) The system of claim 11 wherein the sources, interconnects, and loads include one 12X watt load, six 2X watt AC sources and three 4X watt DC sources, and wherein the 12X watt load is connected to all of the 2X watt AC sources and all of the 4X watt DC sources.

20. (Original) The system of claim 11 wherein the AC sources each converts AC voltage to DC voltage with a one thousand watt capacity.

21. (Original) The system of claim 11 wherein the DC sources each provide a battery DC voltage with a two thousand watt capacity.

22. (Currently amended) A method of distributing power to a bank of loads, the method comprising:

in a first operating mode, fully powering each of the loads by causing each source in first and second groups of sources to provide power to at least one of the loads; and

in a second operating mode in which one or more of the sources is inoperable to provide power, causing each of the loads to remain fully powered by at least one source in one of the first and second groups, providing a bank of sources consisting of including a first group of sources and a second group of sources;

providing a plurality of interconnects; and

~~with the interconnects, connecting each load to one or more sources of both the first and second groups of sources to enable such that one or more sources of both the first and second groups of sources to fully power the loads load; such that in normal operation each source provides power to one or more loads; and such that if any one or more of the sources of one of the groups of sources fails, all of the loads remain each load remains fully powered by sources of one or both of the first and second groups of sources.~~